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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US
<151> 2000-01-04

<150> US 60/115,125
<151> 1999-01-06

<160> 112

<170> PatentIn version 3.2

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cccacatttc cattttttaat atatactgtg ctttacaaat attataatat gttttaaaat   180

40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc   240

tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa   300

caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga   360
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15 aaaggggggaa ggcccccaaa accggggggg gggnaaaaag gtgggtttcc cccttttttcc   180

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45
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caaattgggg ggnaaaccaa atttaaggggg ggaaggggggg gncccccccg ggaaaggccc    180
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aagggggggaa aatttttccg ggggtgggtn ggggggaacca atttaagggg ggggccccccg   240

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15

ctgtacttga actctaaaac tgttggagaa actcagtgct taccccaaca gattcatttc   180

aaatagctgt aaaaggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc   240

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attccttggg cctaggaacc ctcatcaccc tcatcccaac gtcaacccag atcttctctt   300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt   360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg   180
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gttctgggna cgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa   240

tg   242

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      tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt   120

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tnccccnccn nttnanacna aanntngcac tcttggntgc   100

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aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag   180

gccaaccacc tttcaacanc ccccaangcg nggaagccat ttcttgg   227

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ggaagaattg tatgtgggag ttttttaatgg tctcatttca ttggctataa ctcagttaca   180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga   240

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40 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg   180

acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct   240

agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna   300

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ttgccgggga gtcagcagtc gctttttccc ggncgaagcc tcgaactcac cancctgtct   360

166

ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga   420

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gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta   180

gtcgggtact aaggcgttag cgaaggcgaa gcgccgatgt gaagggggtt aatattcctc   240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag   300

5   tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa   360

agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg   420

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aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa accccccat ttcntncccc   180

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5   actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt   180

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc   180

cantnnnctg gggncccacn nnngngaact gagagtggat cttgtgtacc tgacnnacca   240
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gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga   300

ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg   360

25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat   420

aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa   480

ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt   540
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agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt   660

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caagtacgcn agcnctgaan ctaaagcaag caagaaaaag   100

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<400> 54

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tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa   180

gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca   240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg   300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa   360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt   420

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ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggtc ctggggctgg   180

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct   240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtggtgg atgctggcag   300

acattgttat tgccatt   317

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<211> 209
<212> DNA
<213> Human

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aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat   180

taattgggag tgggggctga aacaattcg   209

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<212> DNA
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<400> 58
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221

caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg   180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactggtccg cctgggtgac   240

5   agagcgagac tccatctcta at   262

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10 <212> DNA
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aaacctttat tgtcttacag ggggaacta gcgcggggct gaataaaaacc tttggcccctt   120

cccgggggag gggtatccgg tttataaacc ccaagggtat tttcttagca aaatacttaa   180

20 aaccggccgg ggttttttata caaactggga acccacttt gaaaaatttt ggccttttga   240

tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccggtt   300

aagtattccc ccccggggggg cctttacaaa aagggcggtt ttaaaagctt ttgggcccccc   360
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ctagggaatt gttttaacac ctaaaaaccc ctgcttccct taaagggggcg ttctttaatt   420

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tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca   180

tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct   240

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<211> 515
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<400> 61

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cactttcttt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaag   120

aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt   180

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aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg   300

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atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgat   420

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aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tccttttttgt   180

tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg   240

tcagtgttat caagaagcag actgtttctt acttcttttg tatttcctta cttatttaaa   300

tttgttaaaa ttgatatatt gatatataaa acttctttttg ccagtgttgg tggcacacgc   360

223

ctttaatccc agcacttagg aggcagaggc agggtggatt tctgaatttg agggcaggct   420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa   480

5   ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac   540

caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac   600

cagaccaaac t   611
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gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccca   180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag   240
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cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca   120

tatatttcaa atgtcttgct aacagtggtt actttgctct atccttagct atacgtctcg   180
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aggcacattg ttcctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat   240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtgg aggcagaaat tttgtcaaat   300

45   ctgattaga   309

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<211> 278
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5   <213> Human

<400> 65
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agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa   180

tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa   240

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<210> 66
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atagctagta aactcccct gt   142

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<211> 286
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<400> 67
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attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc   180

ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc   240

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<210> 68
<211> 179
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tagaagtcat tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa   120

ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaat   179

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ttttgaattc taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcatgt   180

agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg   240
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gtgacattgg agataagcag gtagacagat tctcagtgta ttaggagaga aaaatcaata   300

ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt   360

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<210> 70
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tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg   180

agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat   240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat   300

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga   360

tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca   420

atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat   480

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ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc   120

cacag   125

<210> 72
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atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg   120

aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga   180

cctgagatga aatgagatga aaatgatac gaaaaatgat ataaaaaata tgacatgaaa   240

tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa   300

ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga   360

catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga   420

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229

<210> 73
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<212> DNA
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gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa   180

tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga   240

gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga   300

tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga   360

aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat   420

aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg   480

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230

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    tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga   120

    cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa   180
20
    tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg   240

    aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg   299

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    taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga   120
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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatcac   120

cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt   180
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tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact   240

232

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga   300

aaatatgagg ggtggcaagg ttttgcctgt tacattctca aatggaagca aattagatat   360

gtcattg   367

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atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta   120

tcagtgtttg gggtttattt ttaaaagaat agggtgccac cagatgttct ttagtggagg   180

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nntaantaaa aagggtgaag aannttactt cncttggtcc taaaaaacnt tttcntcagt   120

tattaccaaa atatttggac cattantaaa gantagggcc aacccnaatt tttcttgaaa   180

tttccgttaa atagccgtta aatgttttta cccatttcat attggatacc ttaaattata   240

ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttctcctc   300

taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg   360

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35 ccttgatgtt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca   120

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236

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ggccaggcct tcccttaaaa aaaaaatnac cgtttttngg gggangnaac ctttaaaagg   120

ggaaaanaaa tcctttttaa anggaantcc aagggaagga ncctgnncaa nacttccccn   180

30
ccaataaaaa aaaccntttt ggaaangggg aaa   213

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238

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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat    120

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg    180

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat    240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa    300

tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa    360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa    420

atgaaatgaa atgagattaa atg                                           443


<210> 82
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239

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10   <223> n is a, c, g, or t

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15   <223> n is a, c, g, or t

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25   gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata   120

ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag   180

taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata   240
30
taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat   300

aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg   360

35   catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg   420

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40   <210> 83
     <211> 135
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240

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10   <400> 83
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aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga   120

15   aggaaggaag gaagg   135

<210> 84
<211> 346
20   <212> DNA
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gagttgcctt ctgtaagtgc ccctactatc aaggtttcat ggaaaatcta ggcaaggcag   120

aacttcctca gaaggacaag agacaaagaa gtgggggagg ccctcctatc catagctgag   180
35
agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc   240

aaccccagct agacagaact ttgtagattt tgggggtttt aaaaggcctc aagcaaattc   300

40   taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact   346

<210> 85
<211> 100
45   <212> DNA
<213> Human

241

<400> 85
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5   gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa   100

<210> 86
<211> 201
10 <212> DNA
<213> Human

<400> 86
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15
gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata   120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagttgt   180

20 atgtaacagt gtggggtttc a   201

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<211> 531
25 <212> DNA
<213> Human

<400> 87
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aacccagaac gaacgcgtta agtgcgcgtt atcttcctag gatagagtcg gtgacgggaa   120

tcttttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg   180

35 ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa   240

    ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc   300

    gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga   360
40
    ttcttctaag cgtagcgcgt ctactccaat gttttcgtta atccagcccg aactaacgcc   420

    gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag   480

45 aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a   531

242

<210> 88
<211> 530
<212> DNA
5   <213> Human

<400> 88
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10 cattcggtcc agtgcctcgc cctattagcc cttaagccca ccgtttctaa aactcccaga   120

acagccaaac cggtccgccc aaggcctccg tcgttttata atatattccg tttacgtata   180

aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctccttctcc attcgcaaca   240
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gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa   300

gatagcaaag attacccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat   360

20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa   420

tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccactt cttcctatct   480

ttcgctaaca agccattgac ggcgctttgc cgcgcgggcc catctcgcgt   530
25

<210> 89
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30 <213> Human

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40 ttccaccggc ctggttttgg tttttccata attaattaac caggggggncc anttaaaaaa   120

aattaaggna aggnttaaaa aatttaacca anggggggtt taaagggntt tttttttta   180

aaaaaaaagg ttaaancccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc   240
45
cttaacccc gggttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa   300

244

ggaccggttt ccattttaat gggtattggg aa   332

5   <210> 90
    <211> 185
    <212> DNA
    <213> Human

10 <400> 90
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    cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaa   120

15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt   180

    ctcct   185

20 <210> 91
    <211> 365
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    ctagggggta cttgaaaatg ctagaccagg ataactccta agtgtatatc cttggcagac   120
45
    tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga   180

aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag   240

taagtgctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg   300

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aagtcaggat agtagttttc attccttaga tggtacaagt gttgagacaa atg   113

<210> 93
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<212> DNA
<213> Human

<400> 93
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atgaaaatgt tactgttgga ttaaaaaaca aattaagtcc aaatagtgat taggcaagtt   120

ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttggaaaa attaaagaaa   180

cttcatagaa ccccatctct acaccaaaaa   210

246

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gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa   180

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ctcaggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattccnttt   180

5 cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc   240

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analysis

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